

## Assoc. Prof. SAVAŞ TAKAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAI-5722-2021

Yoksis Researcher ID: 126583

### Education Information

Doctorate, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2014 - 2019

Postgraduate, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2010 - 2012

Undergraduate, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2004 - 2009

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Fourier analysis based testing of finite state machines, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Computer Engineering, 2019

Postgraduate, A common representation, standardization, analysis for de novo sequencing results, Izmir Institute Of Technology, Institute Of Engineering And Natural Sciences, 2012

### Research Areas

algorithms, bioinformatics, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Software Engineering

### Academic Titles / Tasks

Assistant Professor, Ankara University, Mühendislik Fakültesi, Yapay Zeka ve Veri Mühendisliği Bölümü, 2022 - Continues

Assistant Professor, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2021 - 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Emotional Structure of Dialogues in Aging-Themed Movies: An Analysis on Text Mining**  
Ergun D., TAKAN S., Katipoglu G.  
SAGE OPEN, vol.14, no.3, 2024 (SSCI)
- II. **FAIR's principles-based, observed and monitored data structure for social media-based digital journalism FAIR prensipleriyle uyumlu gözlemlenebilen ve izlenebilen sosyal medya tabanlı dijital habercilik veri modeli**  
TAKAN S., Ergün D.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.39, no.2, pp.1153-1166, 2024 (SCI-Expanded)
- III. **Knowledge graph augmentation: consistency, immutability, reliability, and context**  
Takan S.  
PEERJ COMPUTER SCIENCE, vol.9, no.0, pp.1542-1555, 2023 (SCI-Expanded)
- IV. **Bias in human data: A feedback from social sciences**  
TAKAN S., Ergün D., Getir Yaman S., Kılınççeker O.  
WILEY INTERDISCIPLINARY REVIEWS-DATA MINING AND KNOWLEDGE DISCOVERY, vol.13, no.4, 2023 (SCI-Expanded)
- V. **Gamified Text Testing for Sustainable Fairness**  
TAKAN S., Ergün D., Katipoğlu G.  
Sustainability (Switzerland), vol.15, no.3, 2023 (SCI-Expanded)
- VI. **Relational Logging Design Pattern**  
TAKAN S., Katipoglu G.  
CMC-COMPUTERS MATERIALS & CONTINUA, vol.75, no.1, pp.51-65, 2023 (SCI-Expanded)
- VII. **Novel Metrics for Mutation Analysis**  
TAKAN S., Katipoglu G.  
Computer Systems Science and Engineering, vol.46, no.2, pp.2075-2089, 2023 (SCI-Expanded)
- VIII. **Fair-News: Digital Journalism Model to Prevent Information Pollution and Manipulation**  
TAKAN S., Erguen D., Katipoglu G.  
CMC-COMPUTERS MATERIALS & CONTINUA, vol.75, no.3, pp.6059-6082, 2023 (SCI-Expanded)
- IX. **DNMSO; an ontology for representing de novo sequencing results from Tandem-MS data**  
TAKAN S., Allmer J.  
PEERJ, vol.8, 2020 (SCI-Expanded)
- X. **Mutant selection by using Fourier expansion**  
TAKAN S., Ayav T.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.5, pp.2750-2767, 2020 (SCI-Expanded)
- XI. **Creation of mutants by using centrality criteria in social network analysis**  
TAKAN S.  
PEERJ COMPUTER SCIENCE, vol.6, 2020 (SCI-Expanded)
- XII. **Developing Applications On-Board of Robots with Becerik**  
Komova B., TAKAN S.  
ADVANCED MATERIALS RESEARCH, vol.403-408, pp.4689-4695, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Hitit Çivi Yazılı Tabletlerin Yapay Zeka Algoritmaları ile Okunması**  
Bingöl B., Masalçı Şahin G., Sir Gavaz Ö., Takan S.  
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.17, no.3, pp.199-205, 2024 (Peer-Reviewed Journal)
- II. **Emotion Map of Dialogues in Old Age Themed Cinema Films**  
Ergün Takan D., takan s., Paker K. O.  
İletişim Kuram ve Araştırma Dergisi, no.66, pp.1-20, 2024 (Peer-Reviewed Journal)
- III. **Observability and Monitoring Design Pattern in Software Engineering**  
TAKAN S., SOYGAZI F.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.25, no.74, pp.395-404, 2023 (Peer-Reviewed Journal)
- IV. **Tag: A Blockchain Inspired Data Structure**  
DORUK A., TAKAN S., SOYGAZI F., Demirtaş Z., Akkurt E.  
Mühendislik bilimleri ve araştırmaları dergisi (Online), vol.5, no.1, pp.20-33, 2023 (Peer-Reviewed Journal)
- V. **A Transparent, Reliable, and Interdisciplinary Model for the Idea Development Laboratory**  
TAKAN S., TAKAN D. E.  
Bilişim Teknolojileri Dergisi, vol.16, no.2, pp.135-150, 2023 (Peer-Reviewed Journal)
- VI. **Community-wide collaboration is a must to reinstall trust in bioinformatics solutions and biomedical interpretation**  
TAKAN S., Allmer J.  
JOURNAL OF INTEGRATIVE BIOINFORMATICS, vol.20, no.1, 2023 (ESCI)
- VII. **AnkaLab: İnterdisipliner Fikir Geliştirme Laboratuvarı**  
TAKAN S., Ergün Takan D.  
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, 2023 (Peer-Reviewed Journal)
- VIII. **Social Sciences and Computer Science: New Opportunities and Solutions**  
TAKAN S., Ergün Takan D.  
Gelenbevi Scientific Research Journal, vol.2, no.2, pp.1-14, 2022 (Peer-Reviewed Journal)
- IX. **Kürsü: Oylama Süreçleri için Sosyal Medya Etkili Yönetişim Modeli**  
TAKAN S., Ergün Takan D.  
Bilgisayar Bilimleri ve Mühendisliği Dergisi, vol.15, no.2, pp.125-139, 2022 (Peer-Reviewed Journal)
- X. **Basitleştirilmiş Konut Enerji Simülasyon Programı KEP-SDM'nin BESTEST (Building Energy Simulation Test) Prosedürü ile Test Edilmesi**  
GÖKÇEN AKKURT G., ŞAHİN C. D., TAKAN S., DURMUŞ ARSAN Z.  
TTMD Isıtma, Soğutma, Havalandırma, Klima, Yangın ve Sıhhi Tesisat Dergisi, no.88, pp.23-30, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Proteogenomics**  
Takan S.  
in: De Novo Sequencing of Peptides from Tandem Mass Spectra and Applications in Proteogenomics, Jens Allmer, Abhishek Kumar, Editor, Springer, London/Berlin , New York, pp.1-19, 2024
- II. **DevOps'a Giriş**  
TAKAN S., Terzi D.  
Nobel Akademik, Ankara, 2022
- III. **IoS: A Needed Platform for Scientific Workflow Management**  
Takan S., Allmer J.  
in: Integrative Bioinformatics, Chen Ming, Hofestädt Ralf, Editor, Springer, London/Berlin , Singapore, pp.313-320, 2022

## Refereed Congress / Symposium Publications in Proceedings

- I. **Sosyal Bilimlerle Bilgisayar Bilimlerinin Kesişimi: Sosyoenformatik**  
TAKAN S.  
Uluslararası Güncel Araştırmalar Sempozyumu 2022 (UGAS'22), Turkey, 21 February 2022
- II. **Sonlu durum makinelerinin fourier analizi tabanlı sınanması**  
TAKAN S., AYAV T.  
12th Turkish National Software Engineering Symposium, UYMS 2018, İstanbul, Turkey, 10 - 14 November 2018, vol.2201, pp.17
- III. **Sayısal devrelerin model kontrol tabanlı testi**  
TAKAN S.  
9th Turkish National Software Engineering Symposium, UYMS 2015, İzmir, Turkey, 9 - 11 September 2015, vol.1483, pp.342-344, İzmir, Turkey, 9 - 12 November 2015
- IV. **Model Checker-Based Delay Fault Testing of Sequential Circuits**  
TAKAN S., AYAV T.  
ARCS 2015 - The 28th International Conference on Architecture of Computing Systems. Proceedings, Porto, Portugal, 24 - 27 March 2015, pp.1-7, Porto, Portugal, 25 - 28 March 2015
- V. **Position Control of a Three Degree of Freedom Robot Manipulator**  
KATİPOĞLU G., TAKAN S.  
Heavy Machinery-HM 2014, Zlatibor, Serbia, 25 - 28 July 2014, pp.41-44, Zlatibor, Serbia, 25 - 28 July 2014
- VI. **Testing Simplified Building Energy Simulation Program via Building Energy Simulation Test (BESTEST)**  
GÖKÇEN AKKURT G., ŞAHİN C. D., TAKAN S., DURMUŞ ARSAN Z.  
CLIMAMED 13: VII. Mediterranean Congress of Climatization, İstanbul, Turkey, 3 - 04 October 2013, pp.49-57
- VII. **De novo markup language, a standard to represent de novo sequencing results from MS/MS data**  
TAKAN S., ALLMER J.  
2012 7th International Symposium on Health Informatics and Bioinformatics, HIBIT 2012, Cappadocia, Turkey, 19 - 22 April 2012, pp.31-36, Cappadocia, Turkey, 19 - 25 April 2012

## Supported Projects

Takan S., TUBITAK Project, Lora Haberleşme Ağı, 2022 - 2024

Takan S., TUBITAK Project, BAZTASARIM: Spectral Verimli Küçük Hücre Baz İstasyonu için KarışımÖnleme ve Geri Besleme Kanal Tasarımı, 2016 - 2018

## Patent

Takan S., News sharing and management system, Patent, CHAPTER H Electricity, The Invention Recourse Number: EP/2022/004568 , Standard Registration, 2022

Takan S., Interdisciplinary Idea Development Laboratory, Patent, CHAPTER H Electricity, The Invention Recourse Number: EP/TP22-1473 , Standard Registration, 2022

Takan S., Digital Governance Model, Patent, CHAPTER H Electricity, The Invention Recourse Number: EP/2022-00102 , Standard Registration, 2022